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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/666,177	09/22/2003	Takatoshi Okagawa	242959US90	8769
	7590 10/01/200 AK, MCCLELLAND	EXAMINER		
1940 DUKE ST	TREET	ROBERTS, BRIAN S		
ALEXANDRIA, VA 22314			ART UNIT	PAPER NUMBER
		2616		
		NOTIFICATION DATE	DELIVERY MODE	
		10/01/2007	ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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		Application N	lo.	Applicant(s)			
Office Action Summary		10/666,177		OKAGAWA ET AL.			
		Examiner		Art Unit			
		Brian Roberts		2616			
David d	The MAILING DATE of this communication a	ppears on the co	ver sheet with the c	orrespondence address			
Period fo	• •) V 10 0ET TO E	YDIDE 2 MONTH/	S) OD TUIDTY (30) DAVS			
WHIC - Exte after - If NC - Failt Any	ORTENED STATUTORY PERIOD FOR REP CHEVER IS LONGER, FROM THE MAILING Insions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period are to reply within the set or extended period for reply will, by stat reply received by the Office later than three months after the mailed patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS 1.136(a). In no event, head will apply and will expute, cause the application	COMMUNICATION nowever, may a reply be tim bire SIX (6) MONTHS from on to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status							
1)⊠	Responsive to communication(s) filed on 28	February 2007.					
2a) <u></u> □	This action is FINAL . 2b)⊠ Th	2b)⊠ This action is non-final.					
3)[3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims	•					
4)⊠	Claim(s) 1-19 is/are pending in the application	on.					
	4a) Of the above claim(s) is/are withdrawn from consideration.						
,	Claim(s) is/are allowed.						
·	Claim(s) <u>1-19</u> is/are rejected.						
•	7) Claim(s) is/are objected to.						
8)[]	Claim(s) are subject to restriction and	i/or election requ	irement.				
Applicat	ion Papers						
9)🖂	The specification is objected to by the Exami	ner.					
10)🛛	The drawing(s) filed on 22 September 2003 i						
	Applicant may not request that any objection to the						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
11)[The oath or declaration is objected to by the	examiner. Note	the attached Office	Action of form PTO-152.			
Priority	under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a)⊠ All b)□ Some * c)□ None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No.							
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
			·				
Attachme	nt(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)							
	2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date. Notice of Informal Patent Application						
Paper No(s)/Mail Date 6) Other:							

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DETAILED ACTION

Claims 1-19 have been examined.

Specification

The abstract of the disclosure is objected to because the last line "Representative Drawing: Figure 1" should be deleted. Correction is required. See MPEP § 608.01(b).

Claim Rejections - 35 USC § 101

1. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

2. Claims 15-16 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. A data structure does not fall into the category of process, machine, manufacture, or composition of matter.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

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4. Claims 1-14 and 17-19 are rejected under 35 U.S.C. 102(e) as being anticipated by Okagawa et al. (US 6958988)

- In reference to claim 1 and 7

In Figure 1, Okagawa et al. teaches a mobile communication control system and method that includes a location information server (100) and a plurality of edge nodes, wherein the location information server (100) includes

- An address managers configured to manage a IP address of a destination mobile station (first address of a destination mobile station) associated with an address of a destination edge node supervising the destination mobile station (second address of the destination mobile station) (column 6 line 66 column 7 line 15)
- An instructor configured to instruct a source edge node connected to a source mobile station via a radio circuit to store the IP address of the destination mobile station (first address of a destination mobile station) associated with the address of the edge node supervising the destination mobile station (second address of the destination mobile station) (column 6 line 66 column 7 line 15)

wherein the source edge node includes:

A first address memory configured to store the IP address of the destination mobile station (first address of a destination mobile station), in accordance with the instruction from the location information server (100), (column 9 lines 42 – column 10 line 39)

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An address converter configured to convert the IP address of the destination mobile station (first address of a destination mobile station) which is included in a packet received from the source mobile station as a destination address, to the address of the edge node supervising the destination mobile station (second address of the destination mobile station) which is associated with the IP address of the destination mobile station (first address of a destination mobile station) in the first address memory (column 9 lines 42 – column 10 line 39)

 A routing processor configured to route the received packet to a destination edge node connected to the destination mobile station via a radio circuit, in accordance with the converted destination address(column 9 lines 42 – column 10 line 39)

wherein the destination edge node comprises:

- A second address memory configured to store the IP address of the destination mobile station (first address of a destination mobile station)
 (column 9 lines 42 – column 10 line 39)
- An address converter configured to convert the address of the edge node supervising the destination mobile station (second address of the destination mobile station) which is included in the received packet as a destination address, to the IP address of the destination mobile station (first address of a destination mobile station) which is associated with the second address of the

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destination mobile station in the second address memory (column 9 lines 42 – column 10 line 39)

A packet transferring processor configured to transfer the received packet to the destination mobile station, in accordance with the converted destination address (column 9 lines 42 – column 10 line 39)

In reference to claim 2

In Figure 6, Okagawa et al. further teaches the destination edge node further includes a selection notifier configured to select the second address of the destination mobile station which is associated with the first address of the destination mobile station in the second memory, and to notify the selected second address of the destination mobile station to the location information server (100), when the destination mobile station moves into a predetermined area and wherein the address manager of the location information server (100) manages the notified second address of the destination mobile station mobile station associated with the first address of the destination mobile station. (column 9 lines 42 – column 10 line 39)

- In reference to claim 3

In Figure 6, Okagawa et al. further teaches the source edge node further includes an inquirer configured to inquire as to the second address of the destination mobile station of the location information server (100), when the first address memory does not store the second address of the destination mobile station associated with the

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first address of the destination mobile station which is included in the packet received from the source mobile station as a destination address; and the instructor of the location information server (100) instructs the source edge node to store the first address of the destination mobile station associated with the second address of the destination mobile station, in accordance with the inquiry from the source edge node. (column 9 lines 42 – column 10 line 39)

- In reference to claim 4, 9

In Figure 6, Okagawa et al. further teaches the address manager of the location information server (100) updates the first address of the destination mobile station and the second address of the destination mobile station which are associated with each other, in accordance with a movement of the destination mobile station. (column 9 lines 42 – column 10 line 39)

- In reference to claim 5, 10

In Figure 1, Okagawa et al. further teaches the instructor of the location information server (100) instructs the edge node which is not in a route of the packet from the source mobile station to the destination mobile station, to delete the managed first address of the destination mobile station and the managed second address of the destination mobile station. (column 6 line 66 – column 7 line 15)

- In reference to claim 6, 12, 14

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In Figure 3, Okagawa et al. further teaches the address converter of the source edge node or the destination edge node distinguishes the first address of the destination mobile station from the second address of the destination mobile station, in accordance with at least one decision bit in the packet. (column 7 lines 21-37)

In reference to claim 8

In Figure 1, Okagawa et al. teaches a location information server (100) used in a mobile communication network for transferring a packet from a source mobile station to a destination mobile station via a plurality of edge nodes, the location information server (100) includes

- An address managers configured to manage a IP address of a destination mobile station (first address of a destination mobile station) associated with an address of a destination edge node supervising the destination mobile station (second address of the destination mobile station) (column 6 line 66 column 7 line 15)
- An instructor configured to instruct a source edge node connected to a source mobile station via a radio circuit to store the IP address of the destination mobile station (first address of a destination mobile station) associated with the address of the edge node supervising the destination mobile station (second address of the destination mobile station) (column 6 line 66 column 7 line 15)

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In reference to claim 11

In Figure 1, Okagawa et al. teaches a edge node connected to a source mobile station that includes:

- An inquirer configured to inquire as to an address of the edge node supervising the destination mobile station (second address of the destination mobile station) of a location information server (100), when a first address memory does not store the second address of the destination mobile station associated with an IP address of the destination mobile station (first address of a destination mobile station) which is included in a packet received from the source mobile station as a destination address (column 9 lines 42 column 10 line 39)
- A first address memory configured to store the IP address of the destination mobile station (first address of a destination mobile station), in accordance with the instruction from the location information server (100) (column 9 lines 42 column 10 line 39)
- An address converter configured to convert the IP address of the destination mobile station (first address of a destination mobile station) which is included in a packet received from the source mobile station as a destination address, to the address of the edge node supervising the destination mobile station (second address of the destination mobile station) which is associated with the IP address of the destination mobile station (first address of a destination

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mobile station) in the first address memory (column 9 lines 42 – column 10 line 39)

- A routing processor configured to route the received packet to a destination edge node connected to the destination mobile station via a radio circuit, in accordance with the converted destination address (column 9 lines 42 – column 10 line 39)
 - In reference to claim 13

In Figure 1, Okagawa et al. teaches an edge node connected to a destination mobile station includes

a selection notifier configured to select the address of the edge node supervising the destination mobile station (second address of the destination mobile station) which is associated with the IP address of the destination mobile station (first address of a destination mobile station) in the second memory, and to notify the selected second address of the destination mobile station to the location information server (100), when the destination mobile station moves into a predetermined area and wherein the address manager of the location information server (100) manages the notified second address of the destination mobile station associated with the IP address of the destination mobile station (first address of a destination mobile station) (column 9 lines 42 – column 10 line 39)

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 A second address memory configured to store the IP address of the destination mobile station (first address of a destination mobile station)
 (column 9 lines 42 – column 10 line 39)

- An address converter configured to convert the address of the edge node supervising the destination mobile station (second address of the destination mobile station) which is included in the received packet as a destination address, to the IP address of the destination mobile station (first address of a destination mobile station) which is associated with the second address of the destination mobile station in the second address memory (column 9 lines 42 column 10 line 39)
- A packet transferring processor configured to transfer the received packet to the destination mobile station, in accordance with the converted destination address (column 9 lines 42 – column 10 line 39)

- In reference to claim 17

In Figure 1, Okagawa et al. further teaches the address converter of the source edge node converts a first address of the source mobile station which is included in a packet received from the source mobile station as a source address, to a second address of the source mobile station which is associated with the first address of the source mobile station; and the address converter of the destination edge node converts the second address of the source mobile station which is included in the received packet as a source address, to the first address of the source mobile station which is

associated with the second address of the source mobile station. (column 9 lines 42 – column 10 line 39)

In reference to claim 18

In Figure 1, Okagawa et al. further teaches that the address converter converts a first address of the source mobile station which is included in the packet received from the source mobile station as a source address, to a second address of the destination mobile station which as associated with the first address of the destination mobile station. (column 9 lines 42 – column 10 line 39)

In reference to claim 19

In Figure 1, Okagawa et al. further teaches that address converter converts A second address of the source mobile station which is included in a received packet as a source address, to a first address of the source mobile station which is associated with the second address of the destination mobile station. (column 9 lines 42 – column 10 line 39)

Conclusion

- 5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure are:
 - Kakemizu et al. (US 2001/0036164) teaches a mobile network system and service control information changing method.

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 Inoue et al. (US 6515974) teaches mobile computer communication scheme supporting moving among networks of different address systems.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian Roberts whose telephone number is (571) 272-3095. The examiner can normally be reached on M-F 10:00-7:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wing Chan can be reached on (571) 272-7493. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

BSR 09/11/2007

WING CHAN
SUPERVISORY PATENT EXAMINER